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Abstract of the Disclosure:

A battery sensor has a current meter, an analytical unit, and a microprocessor that are used to monitor a battery that powers main electrical consumers. The microprocessor is switched off during an idle phase in which the main electrical consumers are switched off. At given intervals during the idle phase, first current values are measured during a given first duration and the analytical unit compares the first current values with high and low current thresholds. If a first current value passes one of the current thresholds, the microprocessor is switched on and during a second longer duration, a second more precise current value is measured and is used to estimate the battery charge. This enables more precise current measurement to be achieved with a lower power drain on the battery.